Action Items from TAC Meeting #2
April 19, 2017

Handouts and presented materials:

1. April TAC Agenda
2. MassDEP Study Area Description (word)
3. Material for TAC (word doc) Species Distribution, Species Distribution (Power point)
4. Draft Calculations for Potential DO Criteria (word), Developing DO criteria (Power point)
5. Mount Hope Bay DO

Attendance List:
In person

- Kimberly Groff
- Richard Carey
- Becky Weidman
- Jennifer Flippin
- Ben Jessup
- Deborah Rutecki
- Todd Callaghan
- Jane Sawyers
- Heidi Travers
- Bob Murphy
- Harry Stewart

Phone

- Jeanne Voorhees
- Peter Tango
- Glen Thursby
- John Logan
- Heather Stoffel

Delineation of Study Area (MassDEP, Tt, Normandeau)

General consensus--TAC approved the delineation, but some modifications might be necessary.
Todd Callaghan and Toby Stover suggested that the study area should be consistent with CZM regions, Assessment units and WQS classification.

Action items:

- **TAC** to provide comments on study area document by **May 3rd**
- **MassDEP** to review AUs and WQS delineation, ensure consistency, likely after June 2017; **Richard** will continue editing the document

Species distribution in Mt. Hope Bay and Taunton River Estuary (Normandeau)

General consensus: The list should include all available species. This will likely be a master list presented as an appendix, etc. Any shortened lists should include rationale for why certain organisms were

included/excluded. Sturgeon should be included for the purpose of criteria calculations. Salter brook trout should be considered during the appropriate season.

General consensus: It might make sense to define habitat types and experiment with different criteria in different waters. Variables to consider are depth, salinity, time of year. Consult NOAA charts for depth. Suggestions so far include:

1. Open water,
2. Deep water,
3. River mouth/upstream waters
4. Benthic and pelagic.

Action item:

- **TAC** provide input on economically and ecologically important species within study area by **May 3rd** (John Logan suggested that he will have input).
- **Jeanne V.** to provide information on ICE to determine if it can be used for DO toxicity-**Done**
- **Normandeau** consolidate master species list for Appendix. Add information to the table and group by family and add sensitive life stage and time of year, flag summer index period. Organize by season.
- **Normandeau and Tt** - Develop a conceptual model and descriptions for the habitat types. Define other potential boundaries for unique standards—pycnocline, upstream boundaries, etc. Develop graphic of Mount Hope Bay/Taunton with habitat types.
- **Normandeau and Tt** Develop documented framework and process ground rules for evaluation of the group of 68 species that can be used at other locations as well as this project.
- **Tt** - Flag DO tox data gaps (field and lab) so that the department can request data collection as a regulatory vehicle.
- **Glen Thursby** – send spreadsheet (Jen will follow up)
  Glen to determine specific needs.
- **RIDEM/MassDEP (Richard Carey)** – Send RI Docs program; allows data evaluation of continuous DO datasets with and without pycnocline (exposure time duration).

Initial DO Criteria Development (Tetra Tech)

Preliminary calculations were developed for CMC (<24 hours) and CC (<7 days) using the Virginia Provence. Glen T suggested time to death information curves (Figure 10) in guidance for less than 24 hour exposures.

Action Items:

- **Jennifer** will send DO calculations to TAC, will revise initial document to provide explanation.
- **Normandeau and Tt** - ID Options for Habitat-specific Criteria, strategize species grouping and conceptual model of habitats for next TAC meeting. Look at what drops out depending on species sensitivities. Calculate preliminary criteria using Virginia Province Approach (mg/L and % saturation)

Do Data

Ben reviewed available DO data and maps showing preliminary historic DO values. Suggestions for next steps included determining what time of day samples were pulled and details about Brayton Point operations at the time of sampling.

Action Items:

- **Tt:** Need context for the condition Brayton Point operations at the time the data were collected (2004-2006), antecedent weather conditions
- **Heather** to send DO data for Massachusetts **(Received Cole River dataset)**
- **TAC** to send any available data